

ABSTRACT OF THE DISCLOSURE

**[0093]** In accordance with one embodiment of the present invention, there is provided a mechanism for managing and controlling global visibility of resources in zones within an operating system controlled by a single kernel instance. Embodiments enable isolation and virtualization of processes within a single image of an operating system, without requiring implementation of hardware support (such as the introduction of an additional privilege level) to isolate privileged programs, and without multiple instances of an operating system or operating system kernel for some applications.